
1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1. Identification of the preparation

Product Name: "SPILL-X-FP (Dry Powder)"
Chemical Name: N/A – This is a mixture/preparation.
CAS No.: N/A – This is a mixture/preparation.
Chemical Formula: N/A – This is a mixture/preparation.
EINECS Number: N/A – This is a mixture/preparation.

1.2. Use of the preparation

The intended or recommended use of this preparation is as an AID IN CONTROLLING AND CLEANING UP SPILLS.

1.3. Company identification

Manufacturer/Supplier: ANSUL INCORPORATED
Address: One Stanton Street, Marinette, WI 54143-2542
Prepared by: Safety and Health Department
Phone: 715-735-7411
Internet/Home Page: <http://www.ansul.com>
Date of Issue: September, 2004

1.4. Emergency telephone

CHEMTREC 800-424-9300 or 703-527-3887

2. COMPOSITION/INFORMATION ON INGREDIENTS

- 2.1.** Ingredient Name: Urea.
Chemical Formula: CH₄N₂O.
CAS No.: 57-13-6.
EINECS Number: 200-315-5
Concentration, Wt %: 65-70 %.
Hazard Identification: See Heading 3.
- Ingredient Name: Calcium Chloride.
Chemical Formula: CaCl₂.
CAS No.: 10043-52-4.
EINECS Number: 233-140-8
Concentration, Wt %: 25-30 %.
Hazard Identification: See Heading 3.
- Ingredient Name: Citric Acid.
Chemical Formula: C₆H₈O₇.
CAS No.: 77-92-9.
EINECS Number: 201-069-1.
Concentration, Wt %: 5-10 %.
Hazard Identification: See Heading 3.
- Ingredient Name: Yellow Pigment
Chemical Formula: C₃₄H₃₀Cl₂N₆O₄.
CAS No.: 5468-75-7.
EINECS Number: 226-789-3
Concentration, Wt %: 0.02 %.
Hazard Identification: See Heading 3.
- Ingredient Name: Green Pigment.
Chemical Formula: Not available.
CAS No.: 1328-53-6.
EINECS Number: 215-524-7.
Concentration, Wt %: 0.10 %.
Hazard Identification: See Heading 3.

NOTE: Unless a component presents a severe hazard, it does not need to be considered in the MSDS if the concentration is less than 1%. [According to Directive 1999/45/EC.]

3. HAZARDS IDENTIFICATION

FOR HUMANS:

Product:

EU Classification:	Xi	Irritant.
R Phrases	36	Irritating to eyes.
S Phrases	2	Keep out of the reach of children.
	22	Do not breathe dust.
	24	Avoid contact with skin.
	26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Components:

Calcium Chloride:

EU Classification:	Xi	Irritant.
R Phrases	36	Irritating to eyes.
S Phrases	2	Keep out of the reach of children.
	22	Do not breathe dust.
	24	Avoid contact with skin.

Citric Acid:

EU Classification:	Xi	Irritant.
R Phrases:	36	Irritating to eyes.
S Phrases:	2	Keep out of the reach of children.
	26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Limit Values for Exposure:

Product:

Nuisance dust limit:	OSHA TWA:	15 mg/m ³ .
	ACGIH TLV-TWA:	10 mg/m ³ .

Components:

Urea:	HTP (FIN)	5 mg/m ³ .
	(15 min. Limit):	10 mg/m ³ .
	TLV Short time (GUS)	10 mg/m ³ .
Calcium Chloride:	OES (UK)	10 mg/m ³ . [Total dust].
	HTP (FIN)	10 mg/m ³ .

Neither this preparation nor the substances contained in it have been listed as carcinogenic by National Toxicology Program, I.A.R.C., or OSHA.

AS PART OF GOOD INDUSTRIAL AND PERSONAL HYGIENE AND SAFETY PROCEDURE, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes, and clothing.

SIGNS AND SYMPTOMS:

Acute Exposure:

Eye Contact: Irritating to the eyes causing redness, pain and tearing. Local tissue destruction could occur due to the corrosive nature and the calcium chloride content.

Skin Contact: May cause irritation; local tissue destruction could occur due to the corrosive nature and the calcium chloride content.

Inhalation: Irritating to nasal and respiratory passages and may cause shortness of breath, headache, confusion, loss of coordination, and delayed pulmonary edema.

Ingestion: Burning pain in the mouth and throat, abdominal pain, nausea and vomiting. Difficulty in breathing may occur due to edema of the glottis.

Chronic Overexposure: Mucous membrane irritation, dermatitis.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Reactive airway.

FOR ENVIRONMENT:

Keep from entering surface water. For harm to the environment see Heading 12.

4. FIRST AID MEASURES

Eye Contact:	Flush with large amounts of water for minimum of 15 minutes while holding lids open. Get medical attention.
Skin Contact:	Remove contaminated clothing and shoes. Wash with soap and large amounts of water for at least 15 minutes. If irritation persists, seek medical attention.
Inhalation:	Remove victim to fresh air. If breathing has stopped, give artificial respiration. Seek medical attention if discomfort continues.
Ingestion:	If patient is conscious, give large amounts of water to drink. DO NOT INDUCE VOMITING. Immediately seek medical attention.

5. FIRE-FIGHTING MEASURES

There are NO extinguishing media which must not be used for safety reasons.

NO special protective equipment is needed for fire-fighters. Wear protective equipment appropriate for the fire conditions. See Heading 8.

6. ACCIDENTAL RELEASE MEASURES

For personal protection: Prevent skin and eye contact, see Heading 8.

Clean up: Because of the hygroscopic nature of calcium chloride, use an absorbent material such as diatomaceous earth, sawdust, etc., and sweep up. Place in tightly closed container until disposal. See Heading 13.

Keep from entering surface water. For harm to the environment see Heading 12.

7. HANDLING AND STORAGE

7.1. Handling

Do not mix with other spill control agents.

Care should be taken in handling all chemical substances and preparations.

See incompatibility information in Heading 10.

7.2. Storage

NO special conditions are needed for safe storage.

See incompatibility information in Heading 10.

Store in original container or SPILL-GUN applicator. Keep tightly closed until used.

Keep from entering surface water. For harm to the environment see Heading 12.

7.3. Specific use

The intended or recommended use of this preparation is as an AID IN CONTROLLING AND CLEANING UP SPILLS.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Exposure limit values

Product:

Nuisance dust limit:	OSHA TWA:	15 mg/m ³ .
	ACGIH TLV-TWA	10 mg/m ³ .

Components:

Urea:	HTP (FIN)	5 mg/m ³ .
	(15 min. Limit):	10 mg/m ³ .
	TLV Short time (GUS)	10 mg/m ³ .
Calcium Chloride:	OES (UK)	10 mg/m ³ . [Total dust].
	HTP (FIN)	10 mg/m ³ .

8.2. Exposure controls

8.2.1. Occupational exposure controls

8.2.1.1. Respiratory protection

Mechanical ventilation is recommended.

Dust mask where dustiness is prevalent.

Use mechanical filter respirator if exposure is prolonged.

8.2.1.2. Hand protection

Use chemical resistant gloves when handling the preparation.

8.2.1.3. Eye protection

Chemical goggles are recommended.

8.2.1.4. Skin protection

Use long sleeved work clothes.

8.2.2. Environmental exposure controls

Mechanical ventilation is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General information

Appearance: Green Powder.
Odor: None.

9.2. Important health, safety, and environmental information

pH: 2.0 in solution. (at 25 °C).
Boiling point/boiling range: Not applicable.
Flash point: None.
Flammability (solid/gas): Not flammable.
Explosive properties: Not explosive.
Oxidizing properties: Not an oxidizer.
Vapor Pressure: Not applicable.
Relative Density (Water = 1): Not determined.
Solubility:
– Water solubility: Completely soluble.
– Fat solubility: Not soluble.
Partition coefficient, n-octanol/water: Not determined.
Viscosity: Not applicable.
Vapor density (Air = 1): Not applicable.
Evaporation rate: Not applicable.

9.3. Other information

Auto-ignition temperature: Does not ignite.

10. STABILITY AND REACTIVITY

10.1. Conditions to avoid

There are NO known conditions such as temperature, pressure, light, shock, etc., which may cause a dangerous reaction.

10.2. Materials to avoid

Material has a pH of approximately 2.0 in solution, avoid strong bases.

10.3. Hazardous decomposition products

Normally stable.

Hazardous polymerization will NOT occur.

Combustion or decomposition products include hydrogen chloride, carbon dioxide, and carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Product:

This product/preparation has not been tested for toxicological effects.

Components:

Urea:

Toxicity Data:	Oral LD ₅₀ (rat)	14,300 mg/kg.	
	Oral LD ₅₀ (rat)	8,471 mg/kg.	
	Dermal LD ₅₀ (rat)	8,200 mg/kg.	
Irritation Data:	Skin (rabbit)	Not irritating.	
	Eye (rabbit)	Not irritating.	

Calcium Chloride:

Toxicity Data:	Oral LD ₅₀ (rat)	1,000 mg/kg.	
	Oral LD ₅₀ (mouse)	1,940 mg/kg.	
	Dermal LD ₅₀ (rat)	2,630 mg/kg.	
Irritation Data:	Skin (rabbit)	Not irritating.	
	Eye (rabbit)	Moderately irritating.	

Citric Acid:

Toxicity Data:	Oral (rat) LD ₅₀	3 g/kg.	
	Oral (rat) LD ₅₀	12 g/kg. [EINICS]	
	Oral (mouse) LD ₅₀	5040 mg/kg.	
Irritation Data:	Skin (rabbit)	500 mg/24 hrs	Mild
	Eye (rabbit)	750 ug/24 hrs	Severe

Ames Test: Negative. [EINICS]

Reproduction: At 600 mg/kg/day, no effects were detected. [EINICS]

Developmental/Teratogenicity: At >241 mg/kg/day, no adverse effects were noted. [EINICS]

Target Organs: Lungs and gastrointestinal.

12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity

Urea:

Acute Toxicity:

Fish:	Leuciscus idus:	LC ₅₀ (96 hrs) = >6,810 mg/L.
	Rasbora heteromorpha	LC ₅₀ (96 hrs) = 12,000 mg/L.
Invertebrates:	Daphnia magna:	EC ₅₀ (24 hrs) = >10,000 mg/L.

Calcium Chloride:

Acute Toxicity:

Fish:	Gambusia affinis:	LC ₅₀ (24 hrs) = 13,400 mg/L.
Invertebrates:	Daphnia magna:	LC ₅₀ (24 hrs) = 3,526 mg/L.
Algae:	Nitzschia linearis:	LC ₅₀ (120 hrs) = 3,130 mg/L.

Citric Acid:

Acute Toxicity:

Fish:	Leuciscus idus:	LC ₅₀ (96 hrs) = >440-760 mg/L.
	Lapomis macrochirus:	LC ₅₀ (96 hrs) = 1516 mg/L.
Invertebrates:	Daphnia magna:	EC ₅₀ (72 hrs) = about 120 mg/L.
Algae:	Scenedemus quadricauda:	EC ₃ (7 day) = 640 mg/L.

12.2. Mobility

Not determined.

12.3. Persistence and degradability

Urea:

Biodegradation in sewage was 4% in 24 hours and 98% in 2 weeks.

Calcium Chloride:

Not applicable, inorganic salt.

Citric acid:

Biodegradation in sewage was 84% in 24 hours.

BOD₅: 526 mgO₂/L.

COD: 728 mg/g substance.

12.4. Bioaccumulative potential

Urea showed no bioaccumulation.

12.5. Other adverse effects

Ozone depletion potential: None.

Photochemical ozone creation potential: None

Global warming potential: None

13. DISPOSAL CONSIDERATIONS

Keep from entering surface water. For harm to the environment see Heading 12.

Dispose of in compliance with national, regional, and local provisions that may be in force.

14. TRANSPORT INFORMATION

Hazard Class or Division: Not a hazardous substance.

For additional transport information, contact Ansul Incorporated.

Keep from entering surface water. For harm to the environment see Heading 12.

15. REGULATORY INFORMATION

EU Classification:	Xi	Irritant.
R Phrases	36	Irritating to eyes.
S Phrases	2	Keep out of the reach of children.
	22	Do not breathe dust.
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Limit Values for Exposure:		
Product:		
Nuisance dust limit:	OSHA TWA:	15 mg/m ³ .
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Components:		
Urea:	HTP (FIN)	5 mg/m ³ .
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Calcium Chloride:	OES (UK)	10 mg/m ³ . [Total dust].
	HTP (FIN)	10 mg/m ³ .
EINECS Status:	All components are included in EINECS inventories or are exempt from listing.	
EPA TSCA Status:	All components are included in TSCA inventories or are exempt from listing.	
Canadian DSL (Domestic Substances List):	All components are included in the DSL or are exempt from listing.	
Environmental restrictions:	None are known.	
Restrictions on Marketing and Use:	None are known.	
Refer to any other national measures that may be relevant.		

16. OTHER INFORMATION**(HMIS) HAZARDOUS MATERIAL IDENTIFICATION SYSTEM RATINGS:**

HEALTH:	<u>1</u>	4. Severe Hazard
FLAMMABILITY:	<u>0</u>	3. Serious Hazard
REACTIVITY:	<u>0</u>	2. Moderate Hazard
		1. Slight Hazard
		0. Minimal Hazard

(WHMIS) CANADIAN WORKPLACE HAZARDOUS MATERIAL IDENTIFICATION SYSTEM RATINGS:

This product is rated: **D2B – Irritating to eyes.**

Format is from directive 2001/58/EC.

EINECS data is from <http://exb.jrc.it/existing-chemicals/>

Data used to compile the data sheet is from Ansul Material Safety Data Sheet, February, 2002.

The EU Classification has been changed in accordance with Directive 1999/45/EC and information in the EINECS ESIS files (Existing Substances Information System).

Toxicological information added from the EINECS ESIS (Existing Substances Information System).

A rating under WHMIS has been added, following the Canadian guidelines.

17. DISCLAIMER

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT, BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. ANSUL SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.

N/A = Not Applicable

NDA = No Data Available

MSDS available at <http://www.ansul.com>

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